

| ADPGPPase Subunit | Forward primer                                  | Reverse primer                                  | Restriction endonuclease |
|-------------------|---|---|--------------------------|
| Large (LS1)       | GATCATTGTTGGGA<br>GAGTGAGCAC<br>(Seq. ID No. 1) | GGGCAGCAGAAT<br>TGTAAGTGTGTC<br>(Seq. ID No. 2) | Hinf I                   |
| Large (LS2)       | CTATTGGTGGTTG<br>TTACCGGGT<br>(Seq. ID No. 3)   | CACTGTTCCAATA<br>TCCTCCCAG<br>(Seq. ID No. 4)   | Hinf I                   |
| Large (LS3)       | GCATATTGCTCGT<br>GCGTACAAC<br>(Seq. ID No. 5)   | CTTTTCGCTGAAG<br>GACATGACC<br>(Seq. ID No. 6)   | -                        |
| Small             | TTTCGTCTTCTCA<br>TCTCGCCGGA<br>(Seq. ID No. 7)  | GGCGATTTAGAG<br>AGGCAGAGTTG<br>(Seq. ID No. 8)  | RsaI                     |

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Page 13, please delete the last paragraph and rewrite as follows:

Table 6 is the nucleotide sequence of ADPGPPase LS1 (ADPGlucose pyrophosphorylase, large subunit 1) from *L. hirsutum* (Seq. ID No. 9). Table 7 is the derived amino acid sequence for ADPGPPase LS1 (ADPGlucose pyrophosphorylase, large subunit 1) from *L. hirsutum* (Seq. ID No. 10).

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Page 14, please delete all paragraphs and rewrite as follows:

Table 6: Nucleotide sequence of ADPGPPase LS1 (ADPGlucose pyrophosphorylase, large subunit 1) from *L. hirsutum* (Seq. ID No. 9).

1 ATGAAATCGA CGGTTTCATTT GGGGAGAGTG AGCACTGGTG GCTTTAACAA  
 51 TGGAGAGAAG GAGATTTTTG GGGAGAAGAT GAGAGGGAGT TTGAACAACA  
 101 ATCTCAGGAT TAATCAGTTG TCGAAAAGTT TGAAACTTGA GAAGAAGGAG  
 151 AAGAAGATTA AACCTGGGGT TGCTTACTCT GTGATCACTA CTGAAAATGA  
 201 CACAGAGACT GTGTTCGTAG ATATGCCACG TCTTGAGAGA CGCCGGGCAA  
 251 ATCCCAAGGA TGTGGCTGCA GTCATATTAG GAGGAGGCGA AGGGACCAAG  
 301 TTATTCCCAC TTACAAGTAG AACTGCAACC CCTGCTGTTC CGGTTGGAGG  
 351 ATGCTACAGG CTCATAGACA TCCCGATGAG CAACTGTATC AACAGTGCTA  
 401 TTAACAAGAT TTTTGTGCTG ACACAGTACA ATTCTGCTGC CCTGAATCGT  
 451 CACATTGCTC GAACGTATTT TGGCAATGGT GTGAGCTTTG GAGATGGATT  
 501 TGTCGAGGTA CTAGCTGCAA CTCAGACACC TGGGGAAGCA GGAAAAAAT  
 551 GGTTC AAGG AACAGCAGAT GCTGTCAGAA AATTTATATG GGTTTTTGAG  
 601 GACGCTAAGA ACAAGAATAT TGAAAATATC CTTGTATTAT CTGGGGATCA  
 651 TCTTTATAGG ATGGATTATA TGGAGTTGGT GCAGAACCAT ATTGACAGAA  
 701 ATGCTGATAT TACTCTTTCA TGTGCACCAG CTGAGGACAG CCGAGCATCA  
 751 GATTTTGGGC TGGTCAAGAT TGACAGCAGA GGCAGAGTTG TCCAGTTTGC  
 801 TGAAAACCA AAAGGTTTTG AGCTTAAAGC AATGCAAGTA GATACTACTC  
 851 TTGTTGGATT ATCTCCACAA GATGCGAAGA AATCCCCTTA TATTGCTTCA  
 901 ATGGGAGTTT ATGTTTTCAA GACAGATGTA TTGCTGAAGC TCTTGAAATG  
 951 GAGTACCCC ACTTCTAATG ATTTTGGCTC TGAAATTATA CCAGCAGCTA  
 1001 TTGATGATTA CAATGTCCAA GCATACATTT TCAAAGACTA TTGGGAGGAC  
 1051 ATTGGAACAA TTAAATCTTT CTATAATGCT AGCTTGGCGC TCACACAAGA  
 1101 GTTTCAGAG TTCCAATTTT ATGATCCAAA AACACCTTTT TACACATCTC  
 1151 CTAGGTTTCT TCCACCAACC AAGATAGACA ATTGCAAGAT TAAGGATGCC  
 1201 ATAATTTCTC ATGGATGTTT CTTGCGAGAT TGCTCTGTGG AACACTCCAT  
 1251 AGTGGGTGAA AGATCACGCT TAGACTGTGG TGTTGAACTG AAGGATACTT  
 1301 TCATGATGGG AGCAGACTAC TACCAAACAG AATCTGAGAT TGCTCCCTG  
 1351 TTAGCAGAGG GGAAAGTACC GATTGGGATT GGGGAAAATA  
 CAAAAATAAG  
 1401 GAAATGTATC ATTGACAAGA ACGCAAAGAT AGGAAAAAAT GTTTC AATCA  
 1451 TTAATAAAGA TGGTGTTCAA GAGGCAGACC GACCAGAGGA AGGATTCTAC  
 1501 ATACGATCAG GGATAACCAT TATATCAGAG AAAGCCACAA TTAGAGATGG  
 1551 AACAGTTATA TGA

Table 7: Derived amino acid sequence for ADPGPPase LS1 from *L. hirsutum* (Seq. ID No. 10).

MKSTVHLGRVSTGGFNNGEKEIFGEKMRGSLNNNLRINQL  
 SKSLKLEKKEKKIKPGVAYS VITTENDTETVFVDM PRLERRRAN  
 PKDVAAVILGGGEGTKLFPLTSRTATPAVPVGGCYRLIDIPMSNC  
 INSAINKIFVLTQYNSAALNRHIARTYFGNGVSFGDGFVEVLAAT  
 QTPGEAGKKWFQGTADAVRKFIWVFEDAKNKNIENILVLSGDHL  
 YRMDYMELVQNHIDRNADITLSCAPAEDSRASDFGLVKIDSRGR  
 VVQFAEKPKGFELKAMQVD TTLVGLSPQDAKKSPYIASMGVYV  
 FKTDVLLKLLKWSYPTSNDFGSEIIPAAIDDY NVQAYIFKDYWED  
 IGTIKSFYNASLALTQEFPEFQFYDPKTPFYTS PRFLPPTKIDNCKI  
 KDAIISHGCFLRDCSVEHSIVGERSRLDCGVELKDTFMMGADYY  
 QTESEIASLLAEGKVP IGI GENTKIRKCIIDKNAKIGNVSIINKDG